

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Period: \_\_\_\_\_

**Use the Pythagorean theorem to solve each problem.**

**Situation:** A wire is stretched from the top of an 8-ft pole to a bracket 5 ft from the base of the pole. How long is the wire?


**Situation:** A helicopter rose vertically 300 m and then flew west 400 m. How far was the helicopter from its starting point?


**Situation:** A park is in the shape of a rectangle 8 miles long and 6 miles wide. How much shorter is your walk if you walk diagonally across the park than along two sides of it?


**Situation:** A 50 ft cable is stretched from the top of an antenna to an anchor point on the ground 15 ft from the base of the antenna. How tall is the antenna?
